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NOTICE OF ALLOWANCE AND FEE(S) DUE

46069 7590 05/15/2008 F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD

WOODBURY, NY 11797

EXAMINER
BIETIT, JACOB F
ART UNIT PAPER NUMBER

2164 DATE MAILED: 05/15/2008

APPLICATION NO	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723.229	11/26/2003	Wei Fan	YOR920030429US1	9160	

TITLE OF INVENTION: SYSTEM AND METHOD FOR INDEXING WEIGHTED-SEQUENCES IN LARGE DATABASES (8728-651

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1440
 \$300
 \$0
 \$1740
 08/15/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1:313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	ed belôw or directed oth	ng the Patent, advance on herwise in Block 1, by (rders and notification a) specifying a new co	of ma	aintenance fees w ondence address;	ill be and/o	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Noz:: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
46069 F. CHIATI 6 A		72008			Cer	tificate	e of Mailing or Trans	mission
F. CHAU & ASSOCIATES, LLC 130 WOODBURY ROAD WOODBURY, NY 11797				I here States addre transr	by certify that the Postal Service was ssed to the Mail mitted to the USP	is Fee(th sul Stop FO (57	s) Transmittal is being fficient postage for firs ISSUE FEE address 1) 273-2885, on the date.	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/723,229	11/26/2003		Wei Fan				0R920030429US1	9160
TITLE OF INVENTION	: SYSTEM AND METE	IOD FOR INDEXING W	EIGHTED-SEQUENC	CES I	N LARGE DATA	ABASE	S(8/28-051	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	Œ I	PREV. PAID ISSU	REE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	_	\$0		\$1740	08/15/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
BETIT, J	ACOB F	2164	707-002000	_				
1. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on t	he pai	tent front page, lis	t		
	ondence address (or Cha 3/122) attached.		(1) the names of u or agents OR, alter	ip to 3	registered paten	t attori	neys 1	
			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print o	r type	:)			
PLEASE NOTE: Uni	ess an assignee is ident	ified below, no assignee	data will appear on th	he pat	ent. If an assign	ee is id	dentified below, the de	ocument has been filed for
(A) NAME OF ASSI		action of this form is 100	(B) RESIDENCE: (C					
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	O ₁	Individual 🚨 Co	orporati	ion or other private gro	up entity 🗖 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Pleas	e first reapply ar	y prev	viously paid issue fee :	shown above)
☐ Issue Fee			A check is enclosed. Payment by credit card. Form PTO-2038 is attached.					
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	tue (feem status in dianta	d aborra)	overpayment, to I)eposi	it Account Numbe	er	(enclose a	extra copy of this form).
	s SMALL ENTITY state		☐ b. Applicant is no	longe	er claiming SMAI	LEN	TITY status. Sec 37 CI	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an the	e applicant; a regi	stered.	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N		Be entire to as 40 of 1	Lhoute LIGHTON
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	U.S.C. 122 and 37 CFR U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain 1.14. This collection is collection in depending upon the i e Chief Information O COMPLETED FORM	or rel s estir individ fficer, S TO	tain a benefit by t mated to take 12 i dual case. Any co , U.S. Patent and THIS ADDRESS	ne pub ninute: mment Trader S. SEN	ic which is to life (and is to complete, includin its on the amount of tir mark Office, U.S. Depa D TO: Commissioner i	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/723,229	11/26/2003	Wei Fan	YOR920030429US1 (8728-651	9160	
46069	7590 05/15/2008		EXAMINER		
F. CHAU & ASSOCIATES, LLC		BETIT, JACOB F			
130 WOODBURY ROAD			ART UNIT	PAPER NUMBER	
WOODBURY, N	Y 11797		2164		
			DATE MAILED: 05/15/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 636 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 636 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	Applicant(s)				
10/723,229	FAN ET AL.					
Examiner	Art Unit					
Jacob F Retit	2164					

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to the communication filed 20 July 2007. The allowed claim(s) is/are 1-7,11,12,15 and 17-22. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) \square All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) Inhereto or 2) In to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6.

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other .

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Art Unit: 2164

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

In view of the comments made by the applicant directed to the Declaration under 37 CFR \$1.132 and the response the applicant has given to the requirement under 37 CFR 1.105, the available prior art of record, which according to the applicant's Declaration does not include "Indexing Weighted-Sequences in Large Databases", does not teach, disclose, or suggest (in combination with all other limitations of the claim), "receiving a sequence comprising one or more pairs of symbol and weight elements, the symbol elements corresponding to a non-uniform frequency distribution" and "reordering the one or more one-dimensional sequences using the non-uniform frequency distribution to generate a new sequence" as claimed in the independent claims.

- 2. With regards to the applicant's arguments towards the rejection given to claim 15 under 35 USC §101, the arguments have been considered, and are deemed persuasive since a program storage device does not need to produce a result provided that the result is evident from the applicant's disclosure. Therefore, the rejection under 35 USC §101 is withdrawn.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2164

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jacob F. Betit whose telephone number is (571)272-4075. The

examiner can normally be reached on Monday through Friday 10:30 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

jfb

12 May 2008

/Charles Rones/

Supervisory Patent Examiner, Art Unit 2164